

California High-Speed Rail Authority



RFP No.: HSR 14-32

**Request for Proposal for Design-Build
Services for Construction Package 4**

**Reference Material, Part F.3 – Shafter-Wasco
Irrigation District Conflict Report**

Shafter~Wasco Irrigation District

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June 26, 2014

Ms. Diana Gomez, Central Valley Regional Director (1 Original Copy)
California High-Speed Rail Authority
2550 Mariposa Mall, Suite 3015
Fresno, CA 93721

Subject: California High-Speed Rail Project
Agreement No. HSR 13-13
Letter Report

Dear Ms. Gomez:

In December of 2013, Shafter-Wasco Irrigation District (“District”) entered into the subject Agreement with the California High-Speed Rail Authority to identify and document conflicts between the proposed rail alignment and the District’s facilities and operations (“Project”). Pursuant to Section 2 of that Agreement, this Letter Report is to transmit all deliverables for the subject Project. Following is a description of the Scope of Work, the Approach, and the Deliverables.

SCOPE OF WORK

The scope of work set forth in the Agreement has been completed and includes the following: 1) identification of conflicts between the proposed rail alignment and Shafter-Wasco Irrigation District (District) facilities, as well as operational conflicts; 2) identification of conflicts between the proposed rail alignment and future proposed District facilities; 3) research of prior rights records with respect to the identified conflicts; 4) compilation of record drawings (as-built drawings) of the District facilities that are in conflict; and 5) preparation of an inventory (i.e. facility type, pipe material and size etc.) of the District facilities that are impacted.

APPROACH

To facilitate identification of conflicts between the proposed rail alignment and the District facilities, conflict maps were prepared. In this regard, the District's Engineering Consultant (GEI Consultants, Inc.) requested and received GIS files from the HSR, which were overlaid with the District's GIS files. With preliminary work maps in hand, a field inspection of potential conflict areas was conducted for the purpose of confirming the indicated conflicts and identifying and documenting additional potential conflicts. It is noted that the identified conflicts reflect only the District facilities that fall within the HSR alignment footprint which, for the most part, is approximately 100 feet in width. In accordance with direction provided by HSR, the District facilities lying inside a 600-foot wide strip, identified as the limits of "Environmental Clearance" on the conflict maps, were not identified as conflicts. In addition to present-day conflicts, prospective conflicts were identified and documented.

Once the conflicts (both present-day and prospective) were identified, title reports for the affected parcels were ordered and reviewed to determine what easements or rights-of-way encumber the lands. With this information, the District was able to complete documentation of the prior rights research with respect to the identified conflicts.

DELIVERABLES

Based on the above-described work, the following project deliverables were prepared and are transmitted herewith:

- ✓ Figure 1 – Map showing location of the proposed rail alignment with respect to the District's boundary.
- ✓ Figure 2A and 2B – Map showing the conflicts between the rail alignment and the existing District facilities.
- ✓ Figure 3A and 3B – Map showing the conflicts between the rail alignment and the existing District facilities, overlaid on an aerial photo.
- ✓ Figure 4A and 4B – Index map showing the locations where potential conflicts exist, and the key map for Figure 5-1 thru Figure 5-9.

- ✓ Figure 5-1 thru Figure 5-9 – Figures showing location-specific conflicts (aerial-based), and identification of conflicts related to the proposed railway alignment and/or proposed roadway work.
- ✓ Figure 6-1 thru Figure 6-10 – “On-the-ground” pictures of District facilities which would be impacted.
- ✓ Figure 7 – Map showing conflicts with prospective District facilities, consisting primarily of interties being considered with the facilities of adjacent districts and with the Friant-Kern Canal.
- ✓ Figure 8A ,8B, and 8C – Identification of “operational” conflicts.
- ✓ Summary of Conflicts – Inventory of conflicts with detailed information of District facilities impacted (i.e. facility type, pipe material, size, etc.); identification of as-built drawings for impacted facilities; and documentation of prior rights regarding the site for each conflict.

With regard to the identification of prospective conflicts (refer to Figure 7), the following supporting documentation is also transmitted herewith:

Multi-District Conveyance Facility:

- ✓ Project Brochure describing the project elements for the proposed Concept Study.
- ✓ Preliminary Report Memorandum, dated December 1, 2003, which defines the concept alternatives to facilitate regional water banking.
- ✓ Sketches of the proposed project alternatives, and associated concept-level cost estimates.
- ✓ Project Abstract describing the purpose, project alternatives and cost estimates of the project.
- ✓ It is noted that this project is considered a “first-priority” project in the Poso Creek Integrated Regional Water Management Plan, which was adopted by seven water districts in 2007, and subsequently updated in 2014. Copies of excerpts of the Plan can be provided upon request.

Madera Avenue Intertie:

- ✓ Maps showing the proposed alignments with associated construction cost estimates.
- ✓ Cover page of grant proposal submitted to the US Bureau of Reclamation (Reclamation), for the Madera Avenue Intertie, submitted under the San Joaquin River (SJR) Restoration Program.
- ✓ Award letter from Reclamation with notification that the grant proposal (under the SJR Restoration program) was successful.

With regard to the documentation of prior rights research, a list of all underlying documents is summarized in the project list which is attached, and a copy of all underlying documents is available upon request.

If a meeting would be helpful between District staff, its Engineering Consultant, and representatives from the HSR, to discuss the information provided, please feel free to contact me to arrange the meeting. Also, if you have any questions or require any additional information or documentation, please call me (at 661-758-5153) or Ms. Isela Medina (at 661-327-7601).

Sincerely,

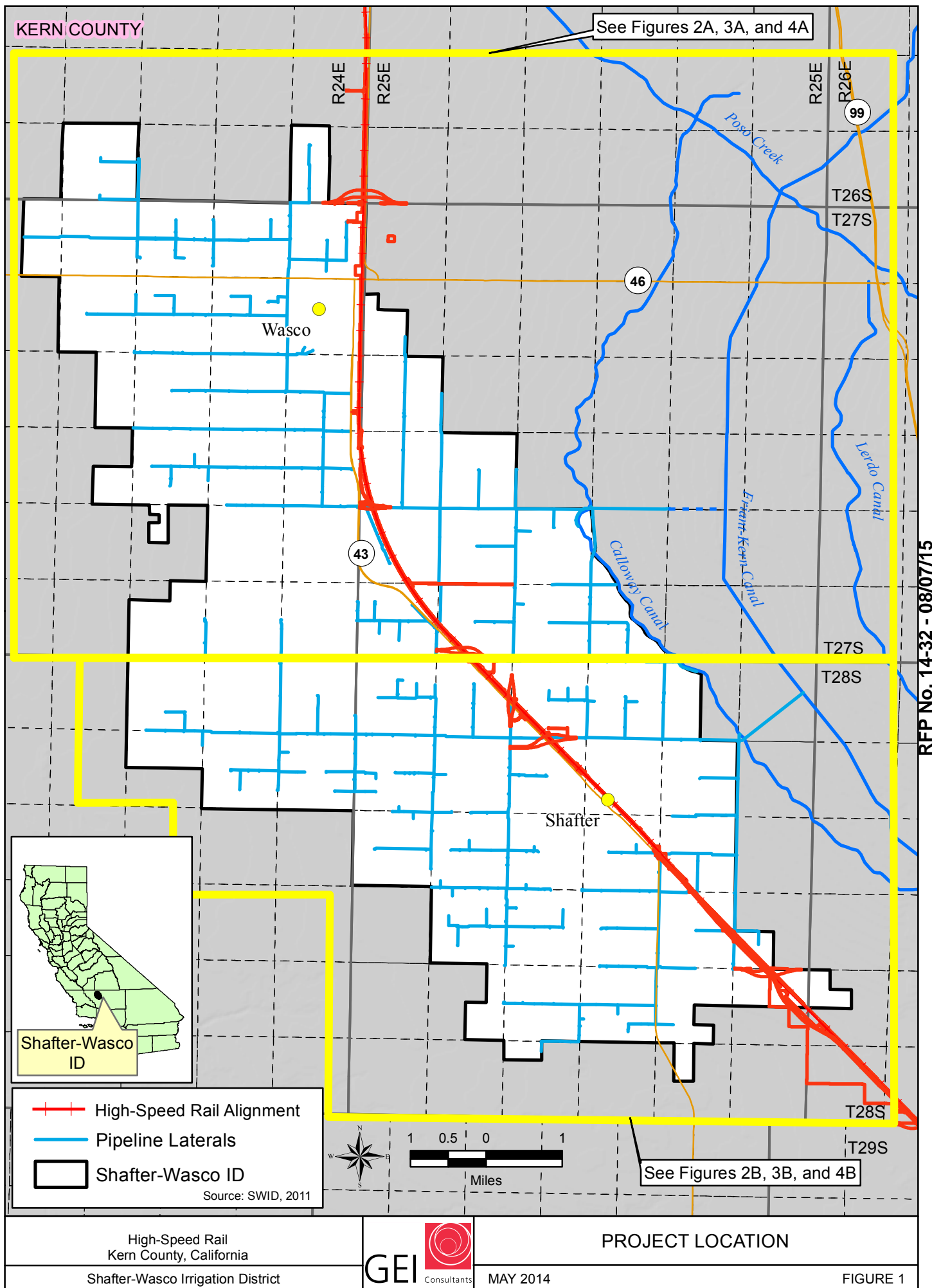
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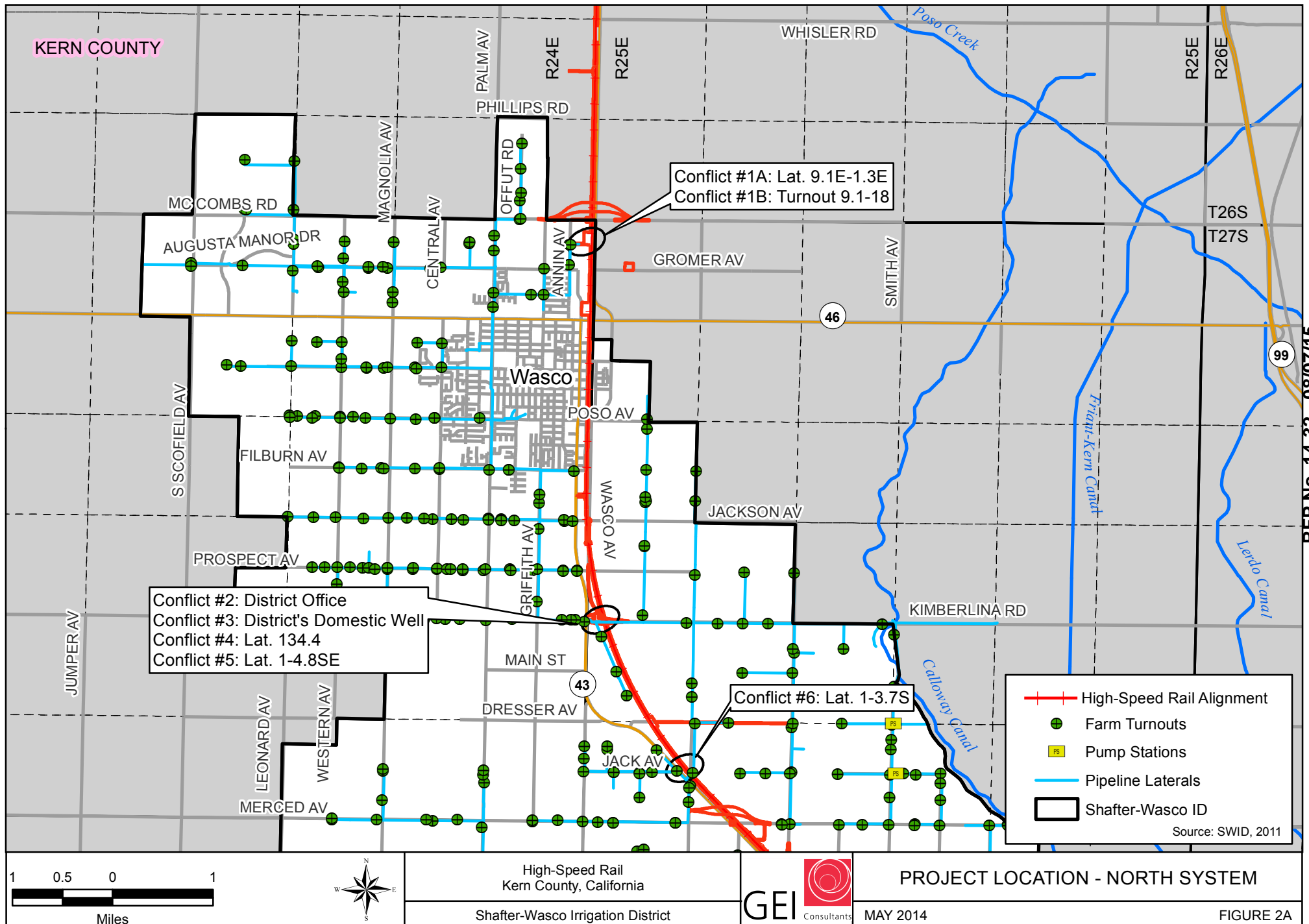
DANA S. MUNN
General Manager

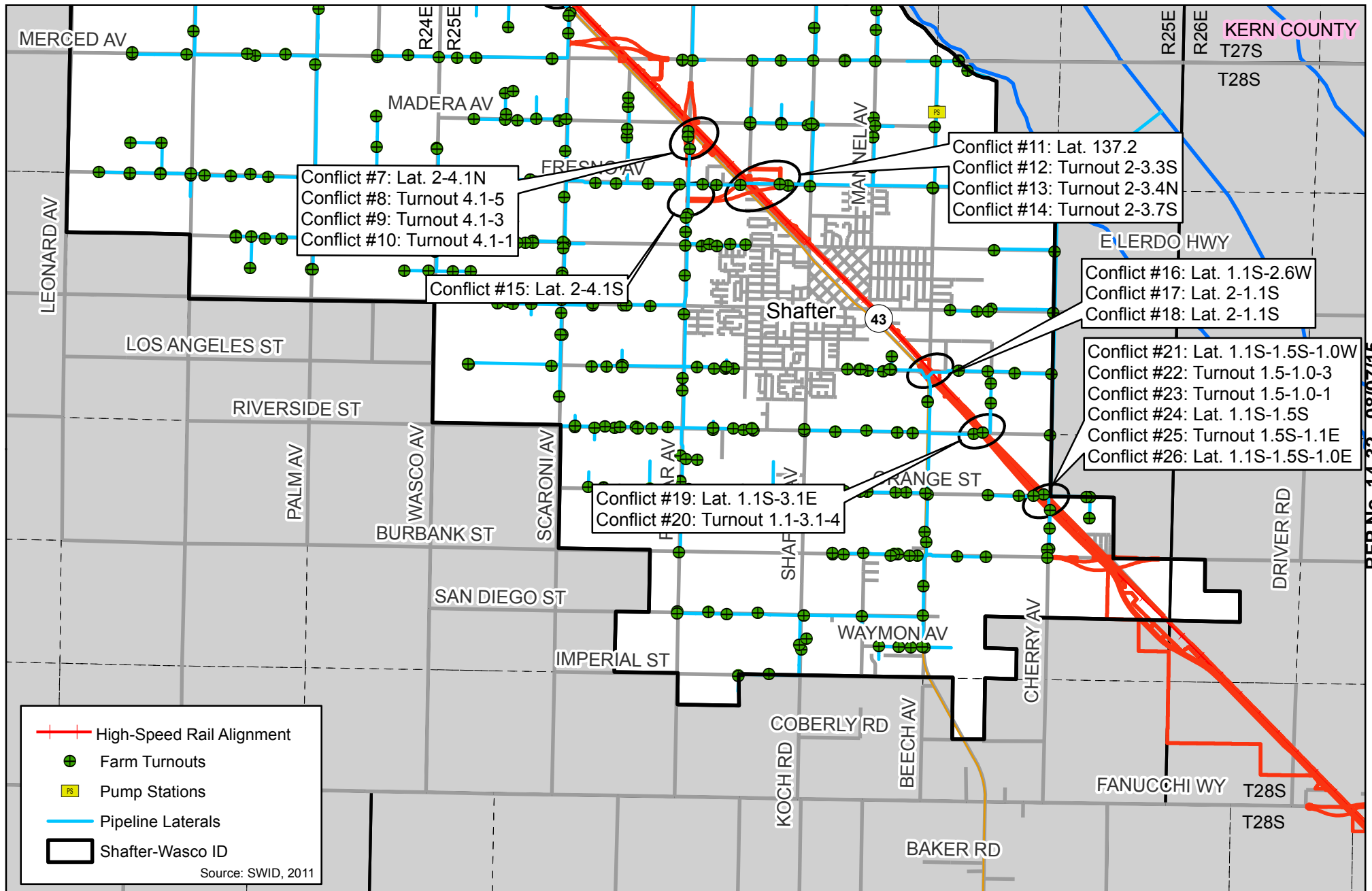
CC: Isela Medina, GEI Consultants, Inc.

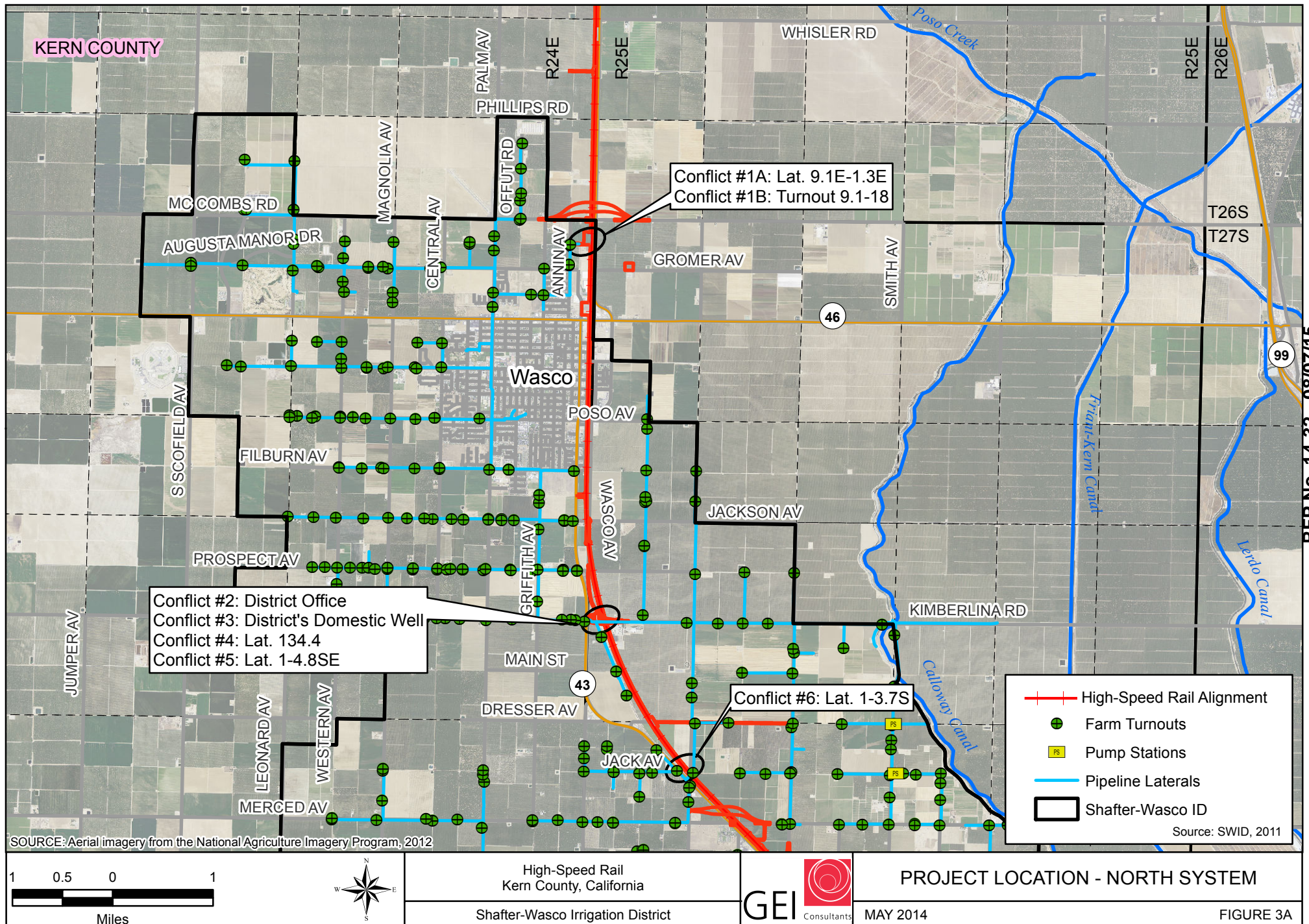
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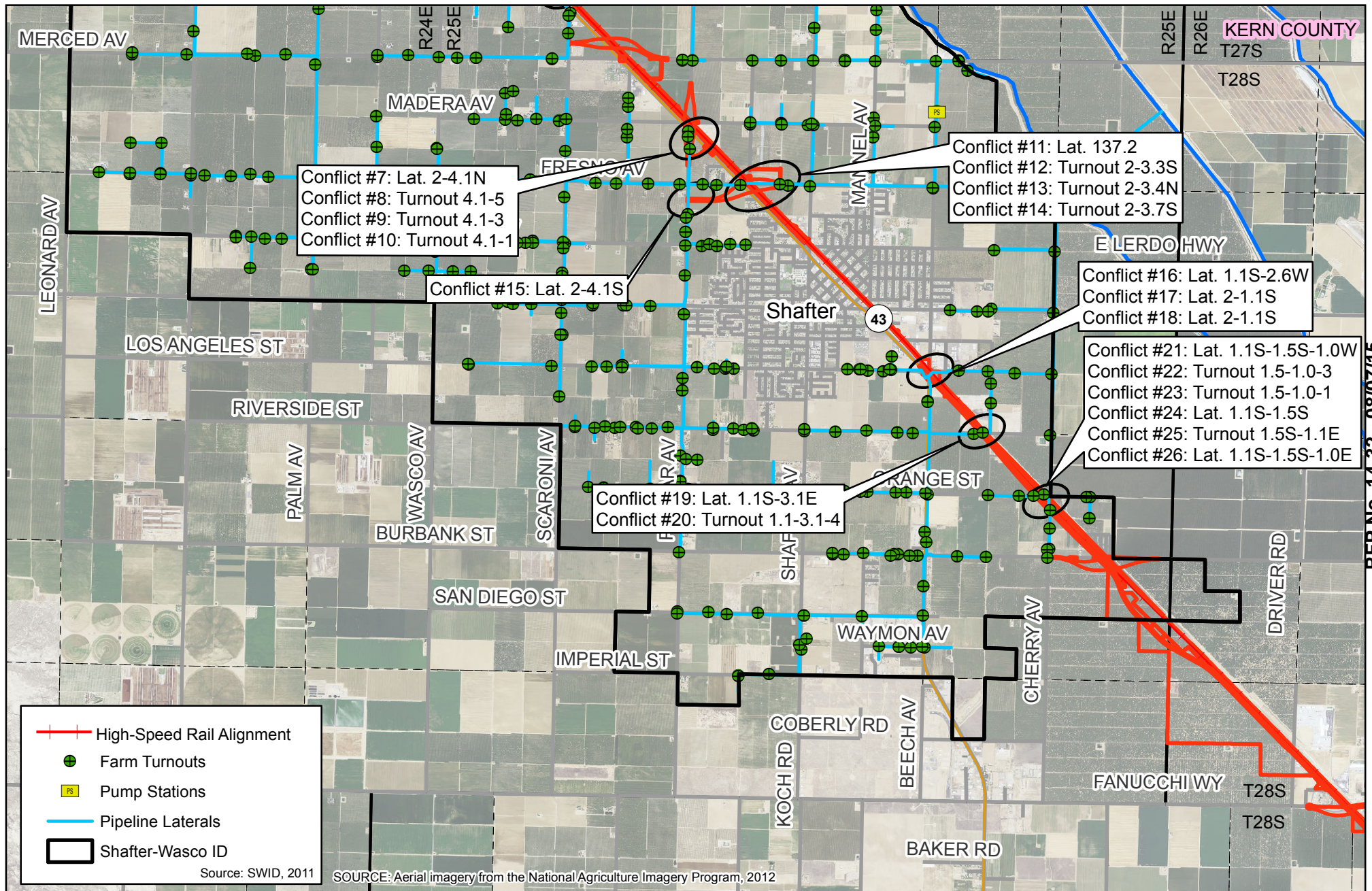
Conflict Maps

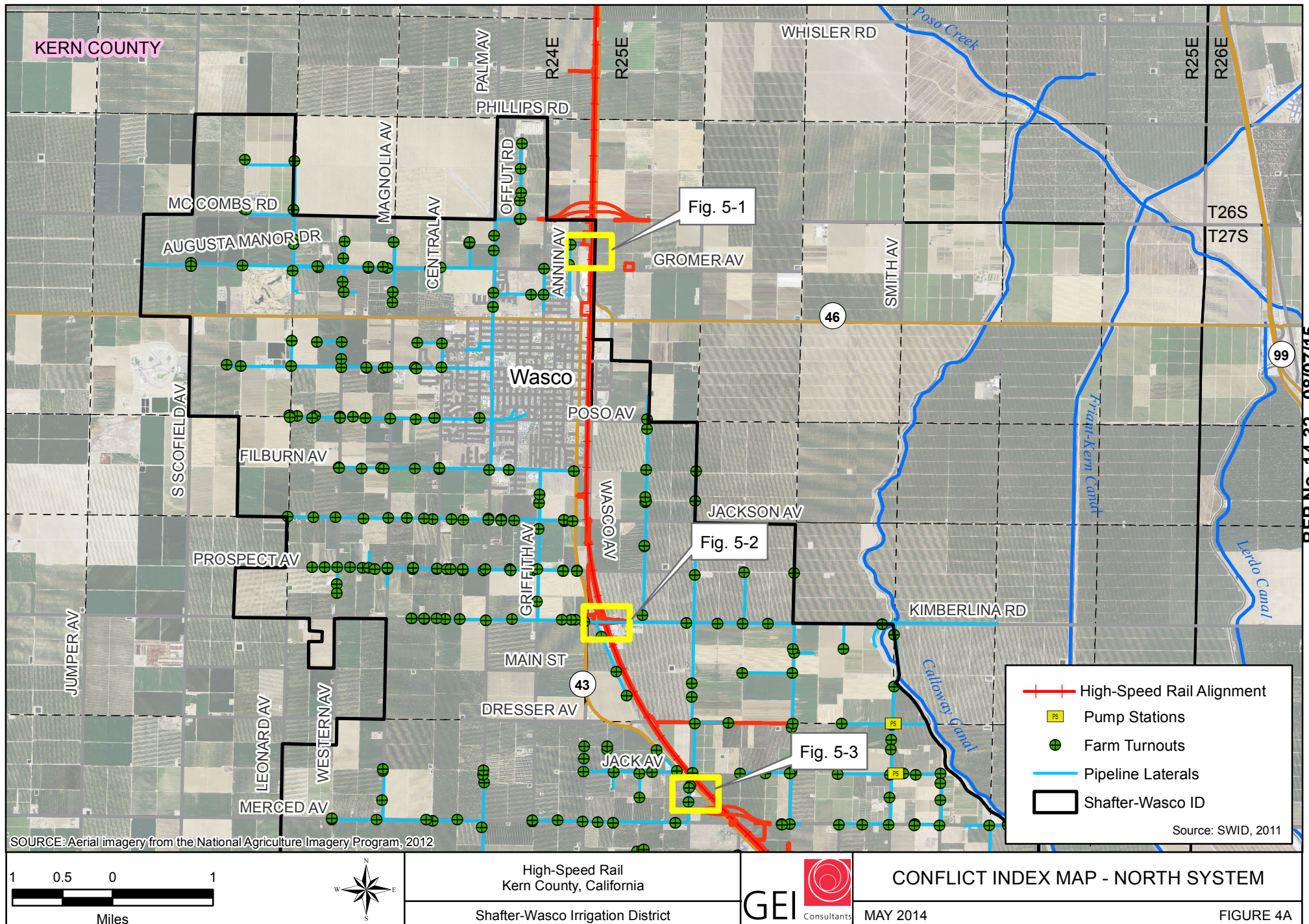


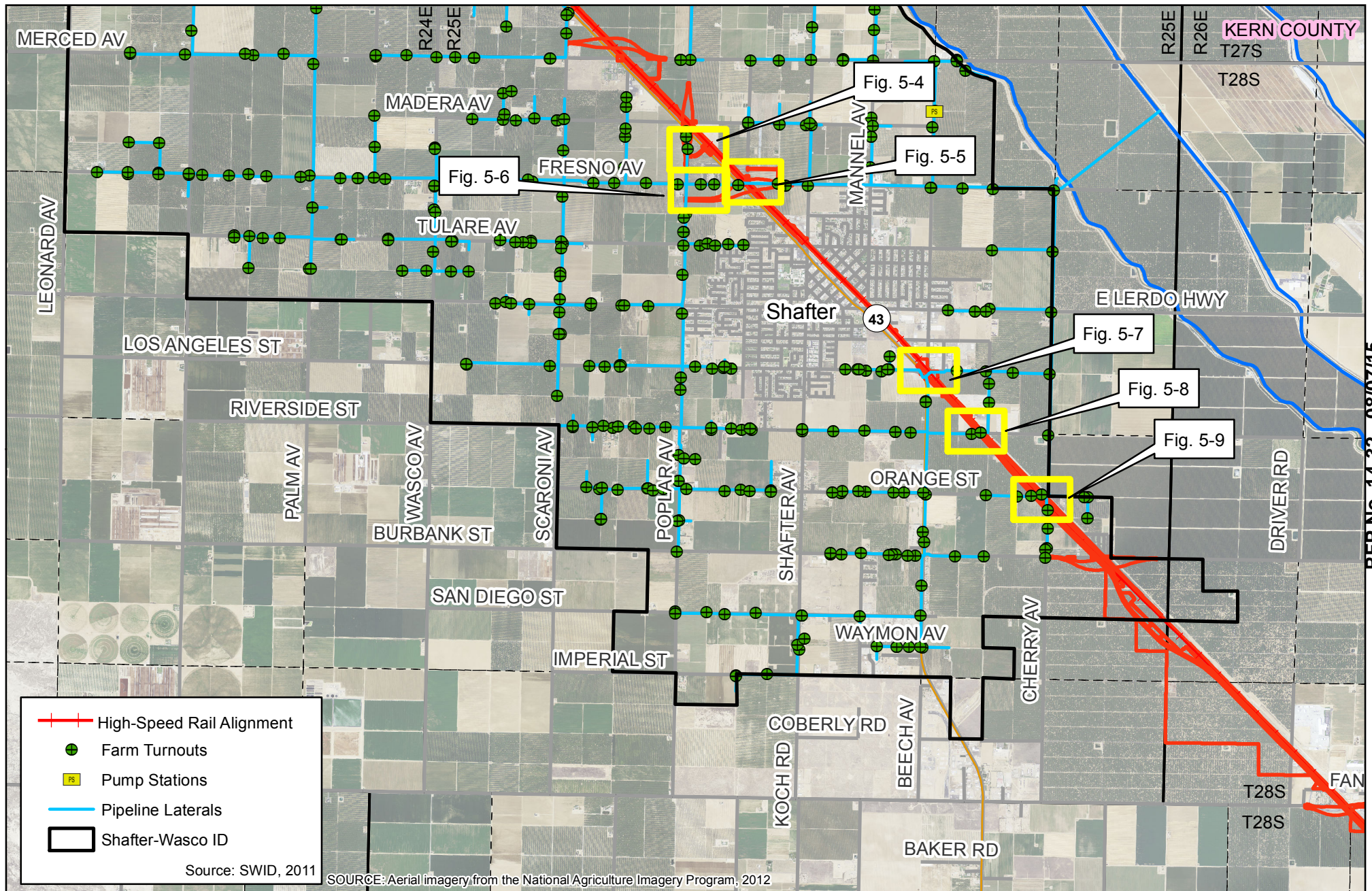


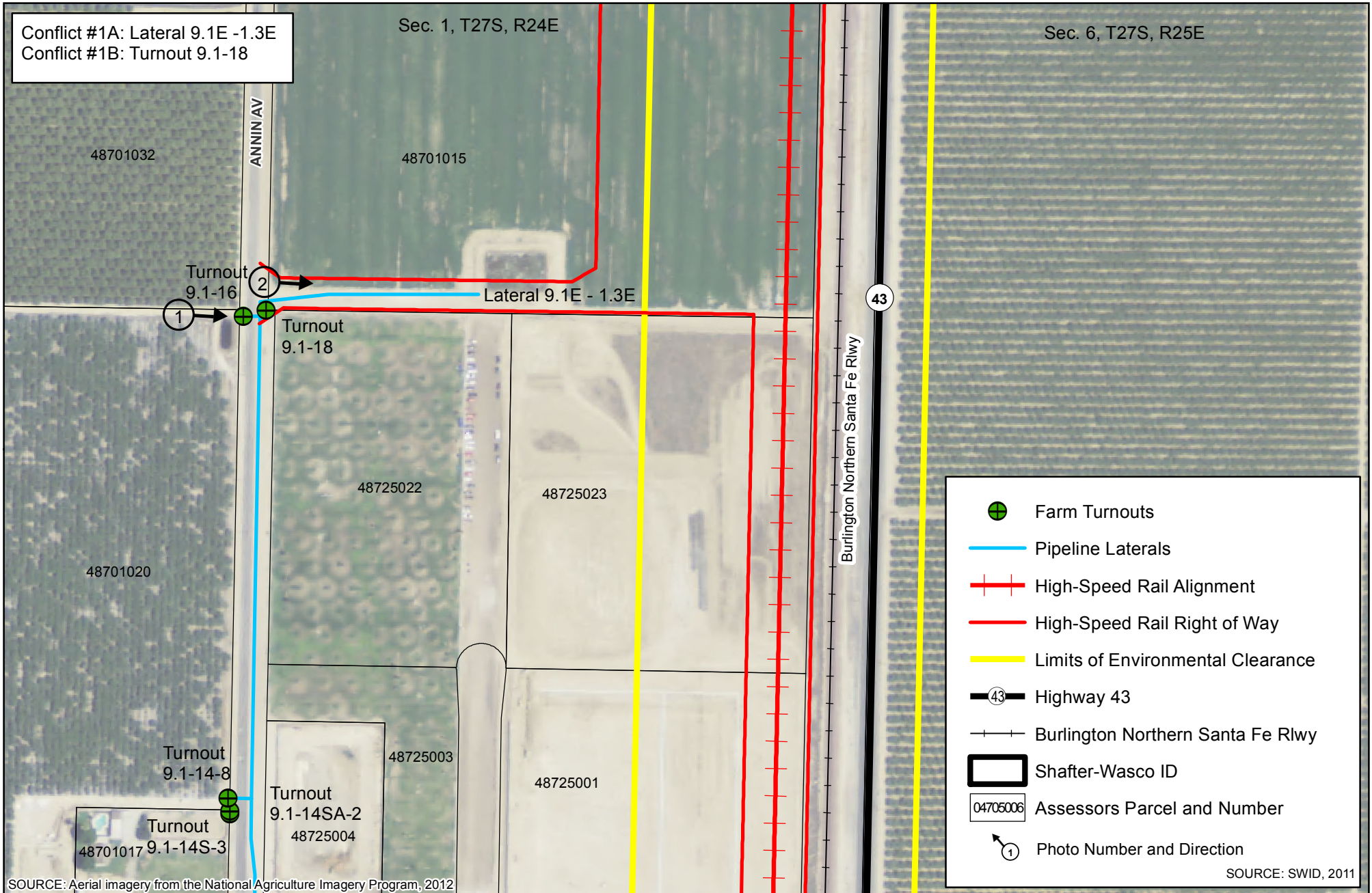


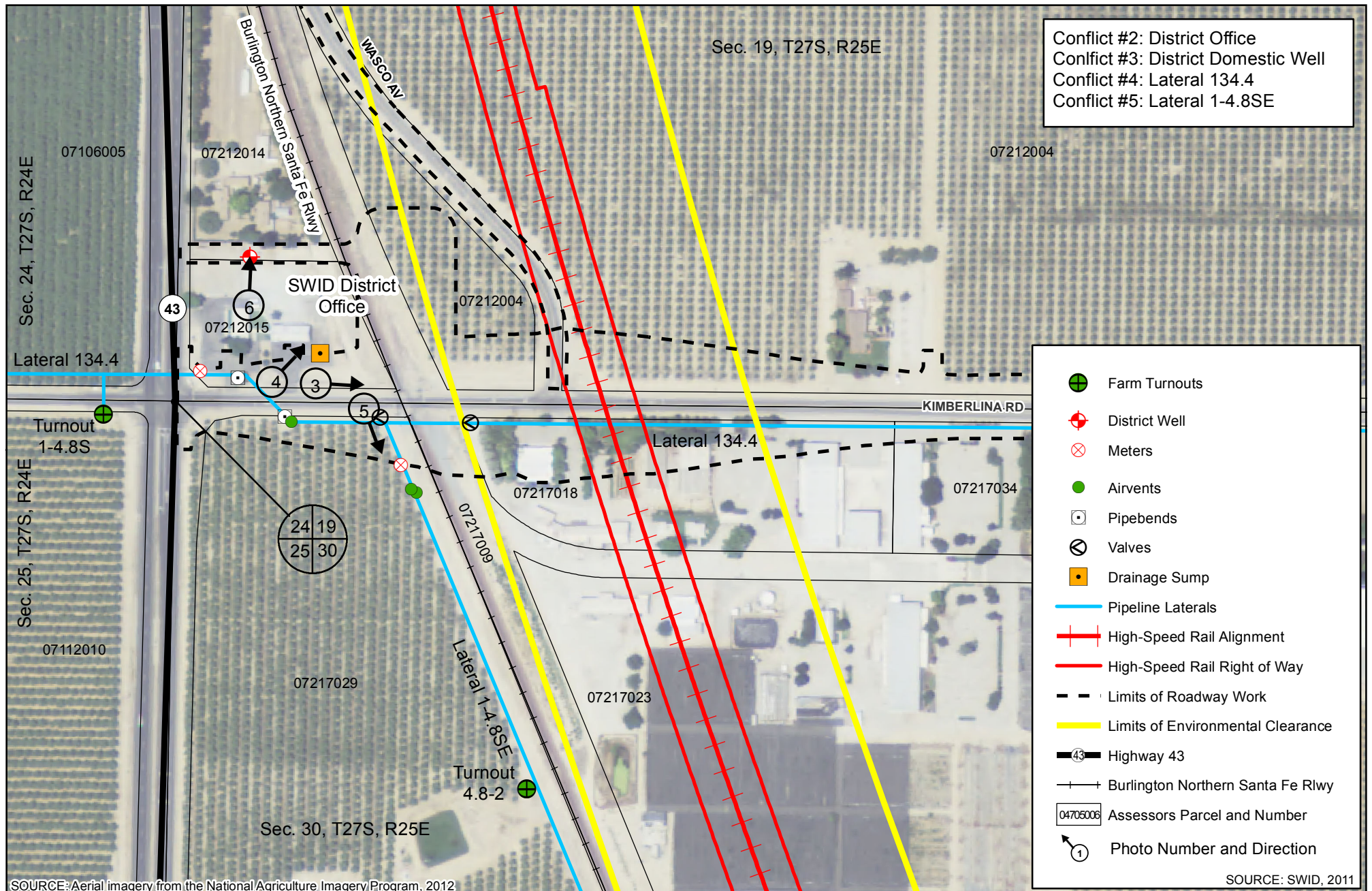


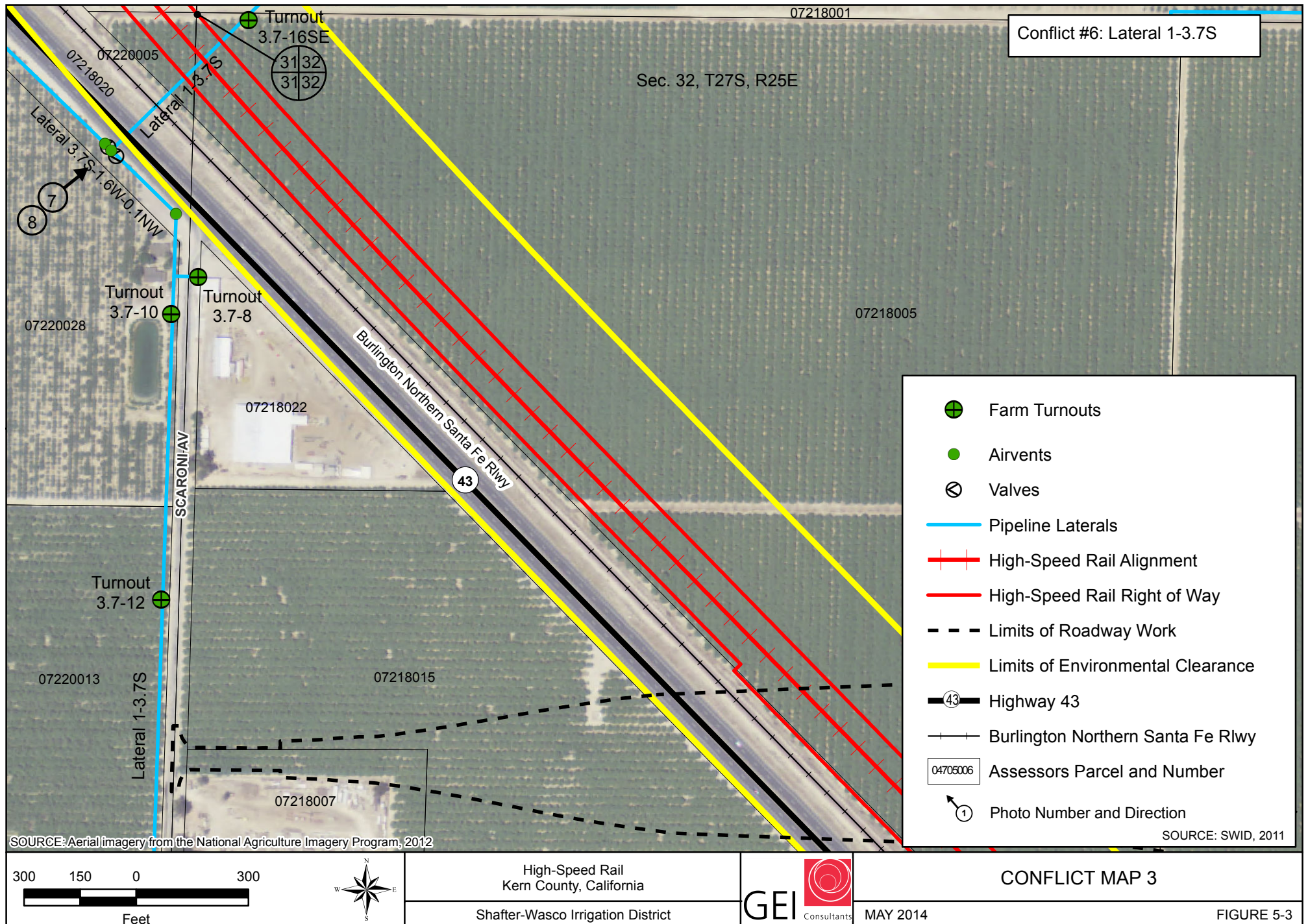


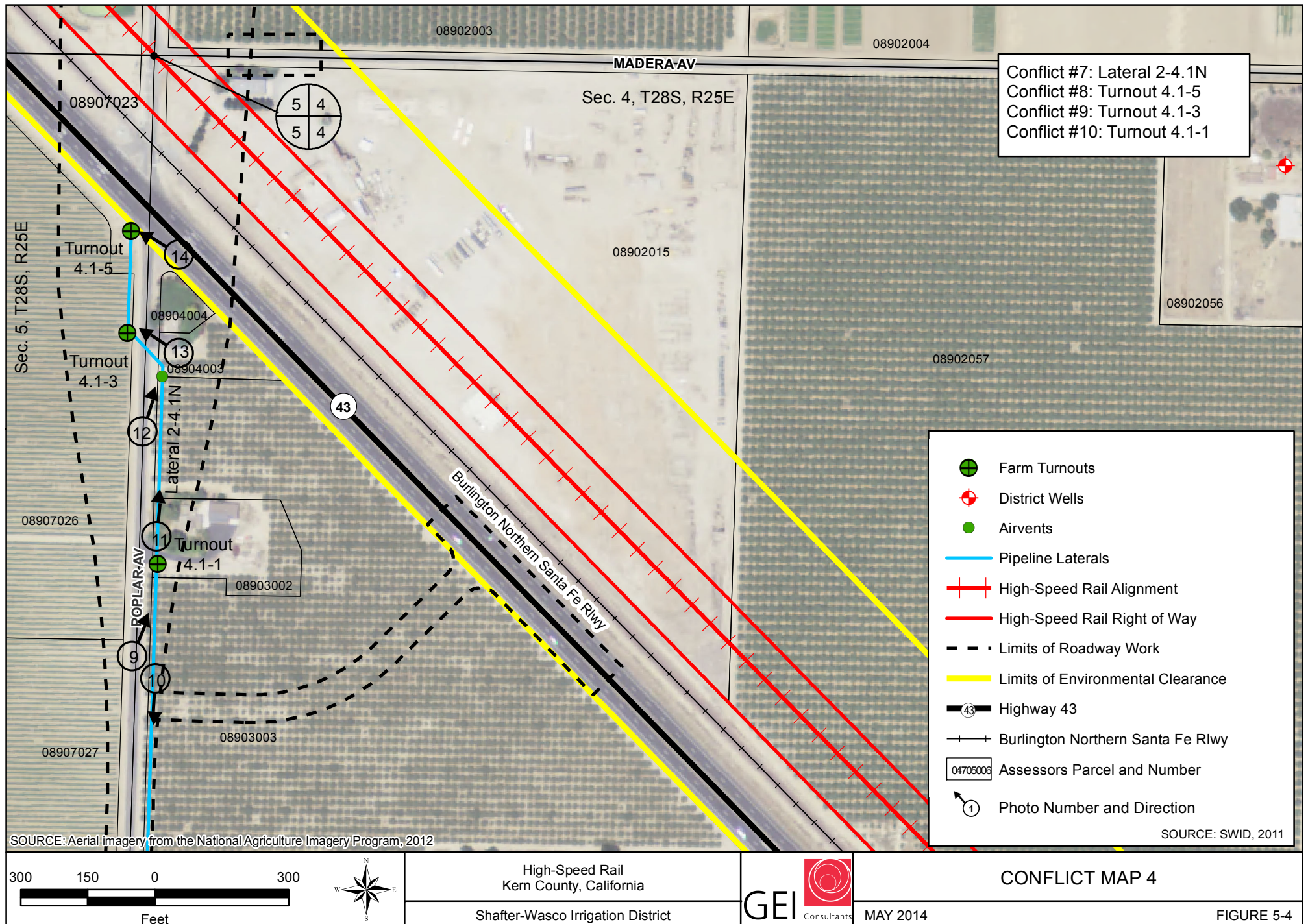


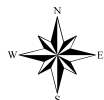
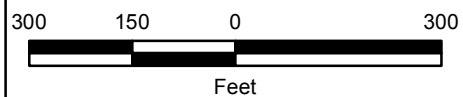
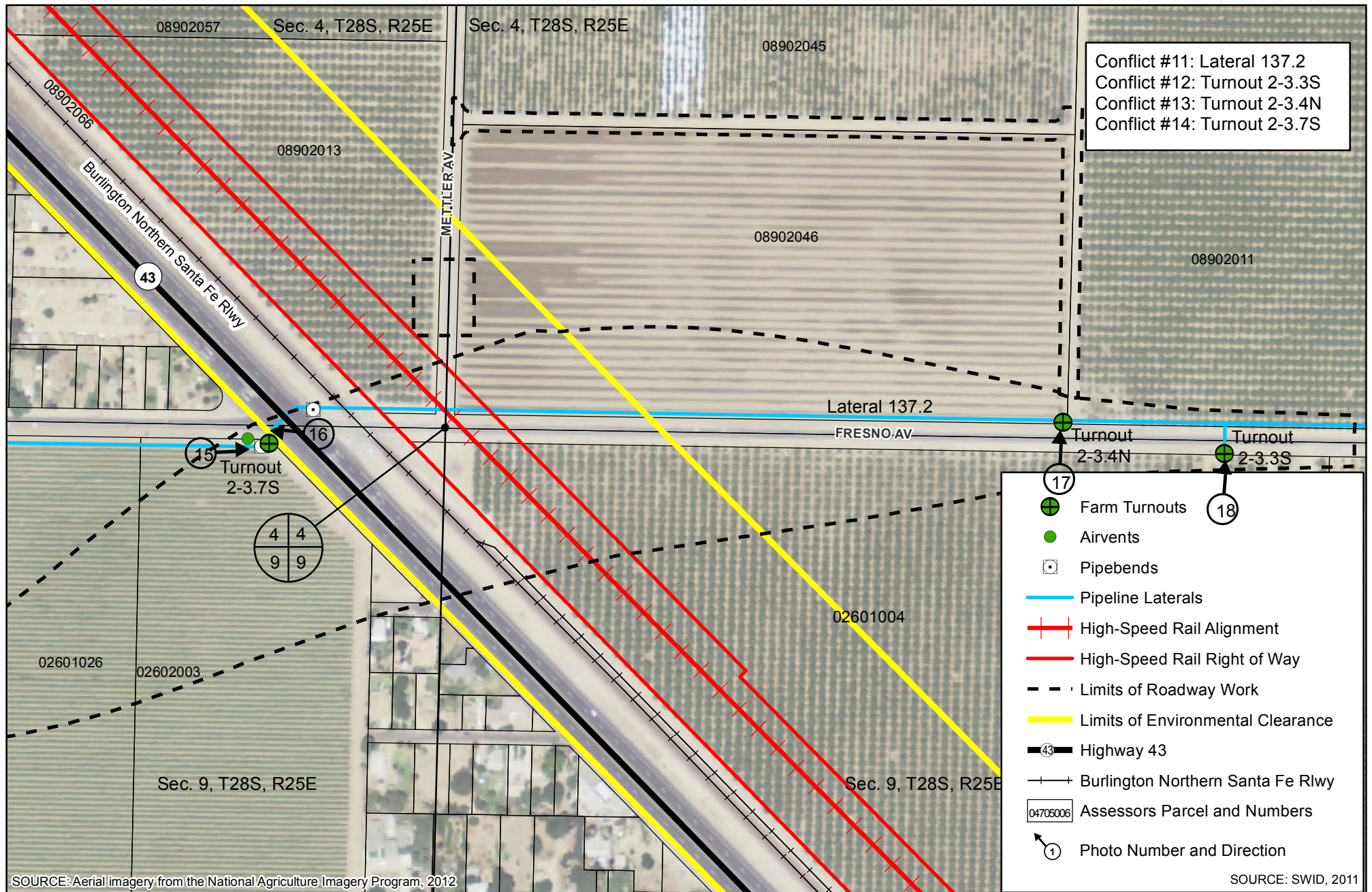












High-Speed Rail
Kern County, California

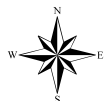
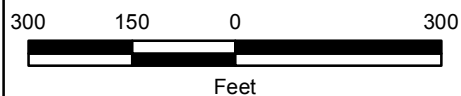
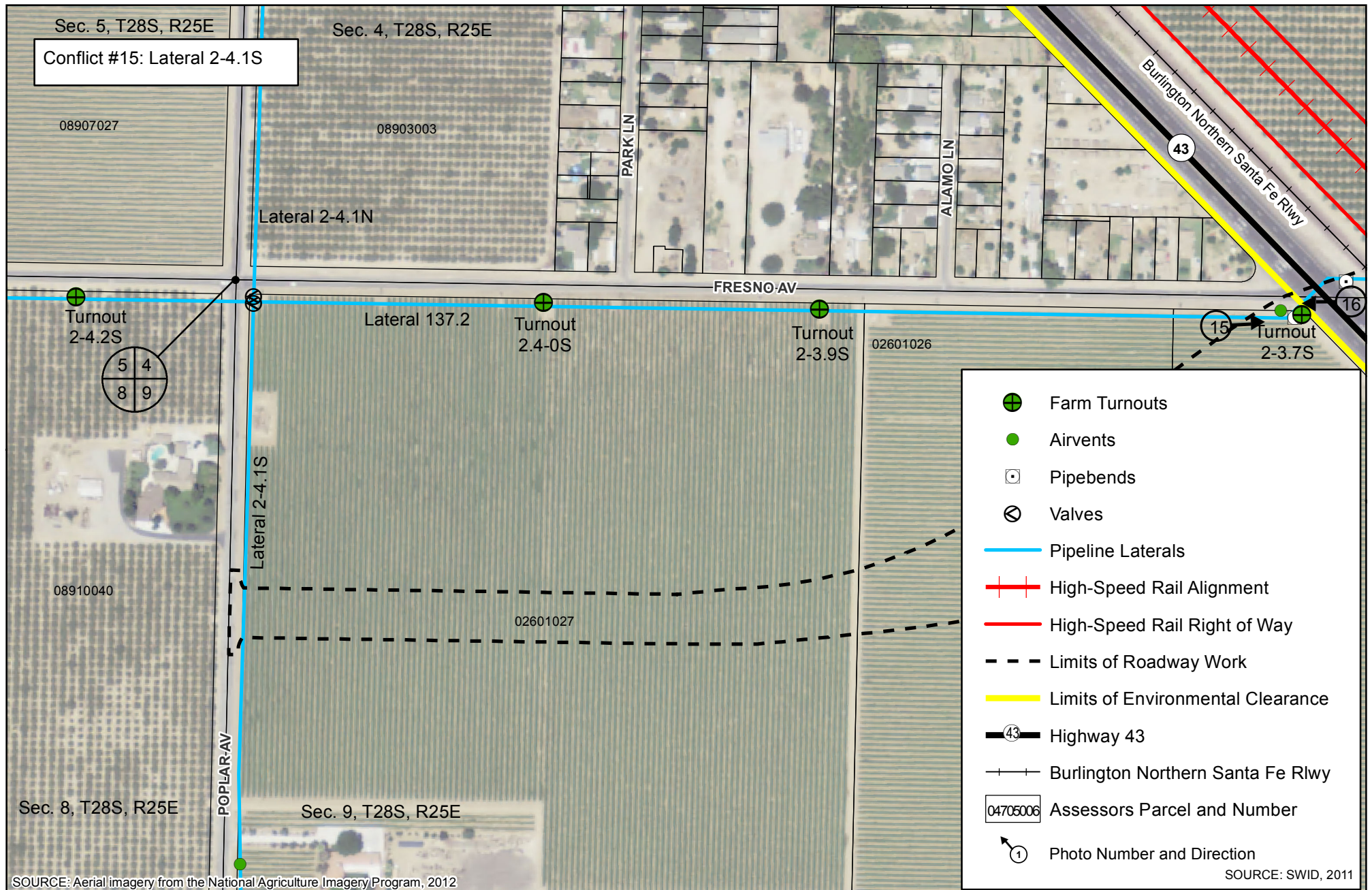
Shafter-Wasco Irrigation District



MAY 2014

CONFLICT MAP 5

FIGURE 5-5



High-Speed Rail
Kern County, California

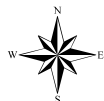
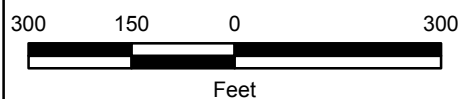
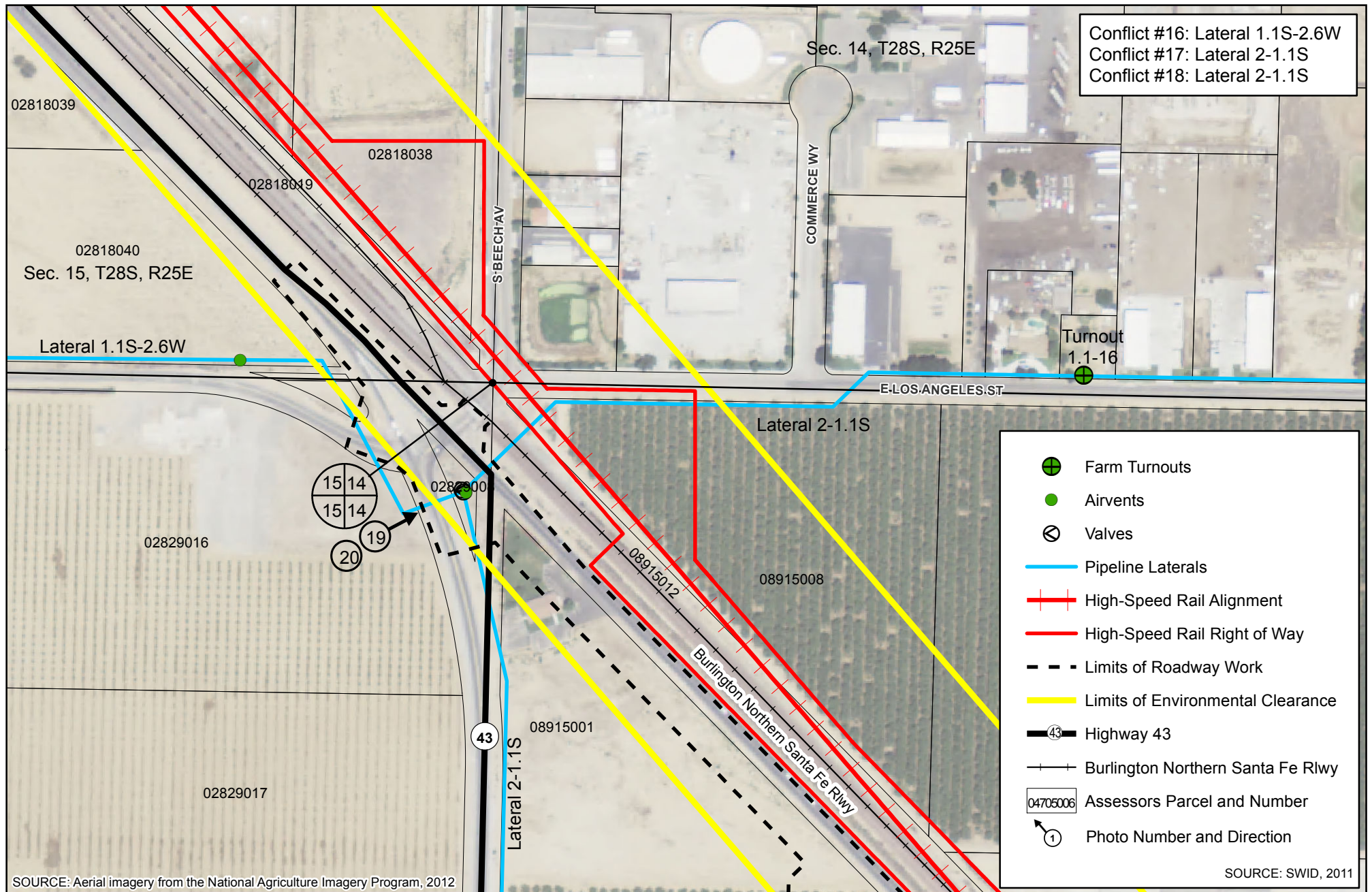
Shafter-Wasco Irrigation District



MAY 2014

CONFLICT MAP 6

FIGURE 5-6



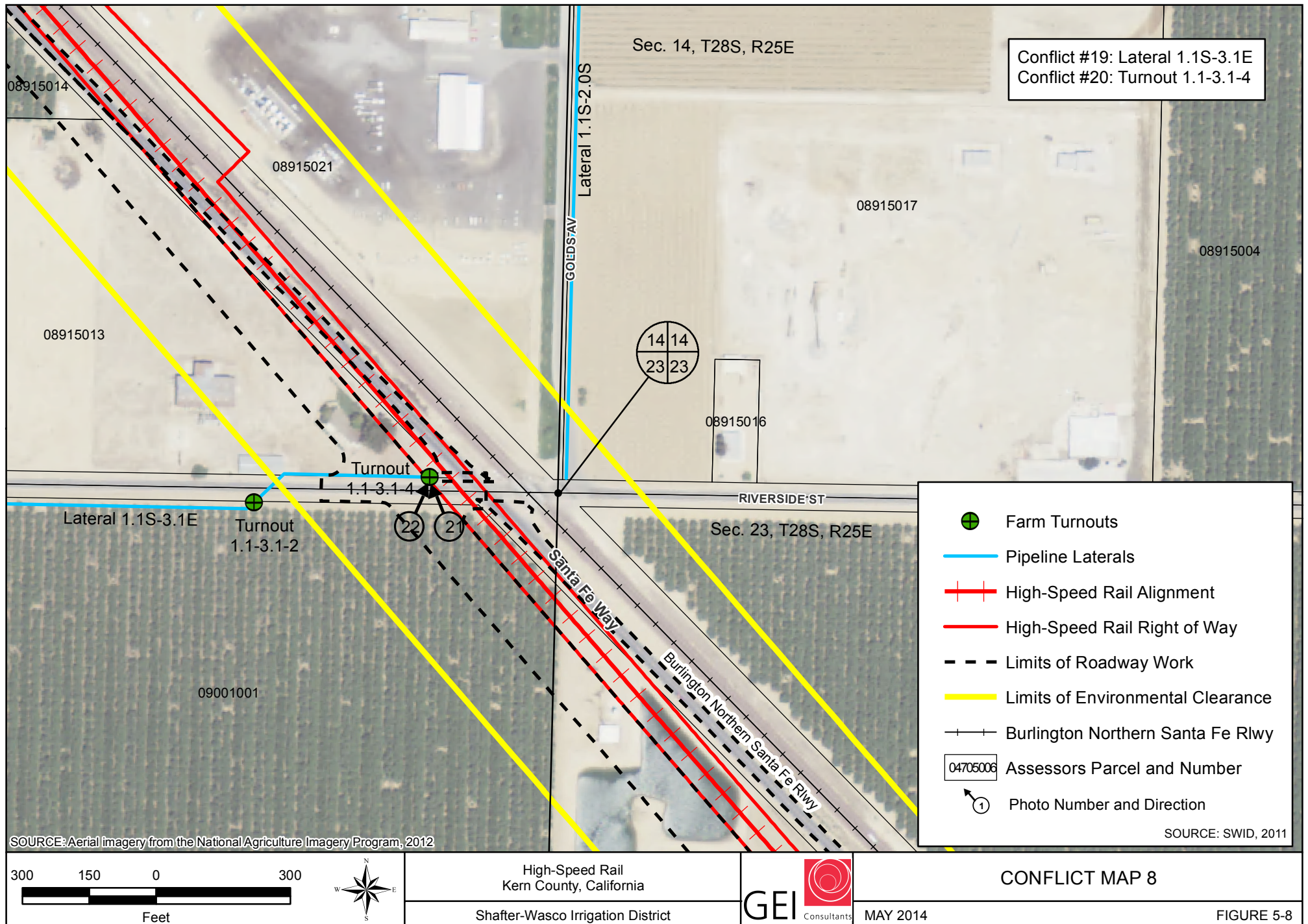
High-Speed Rail
 Kern County, California
 Shafter-Wasco Irrigation District

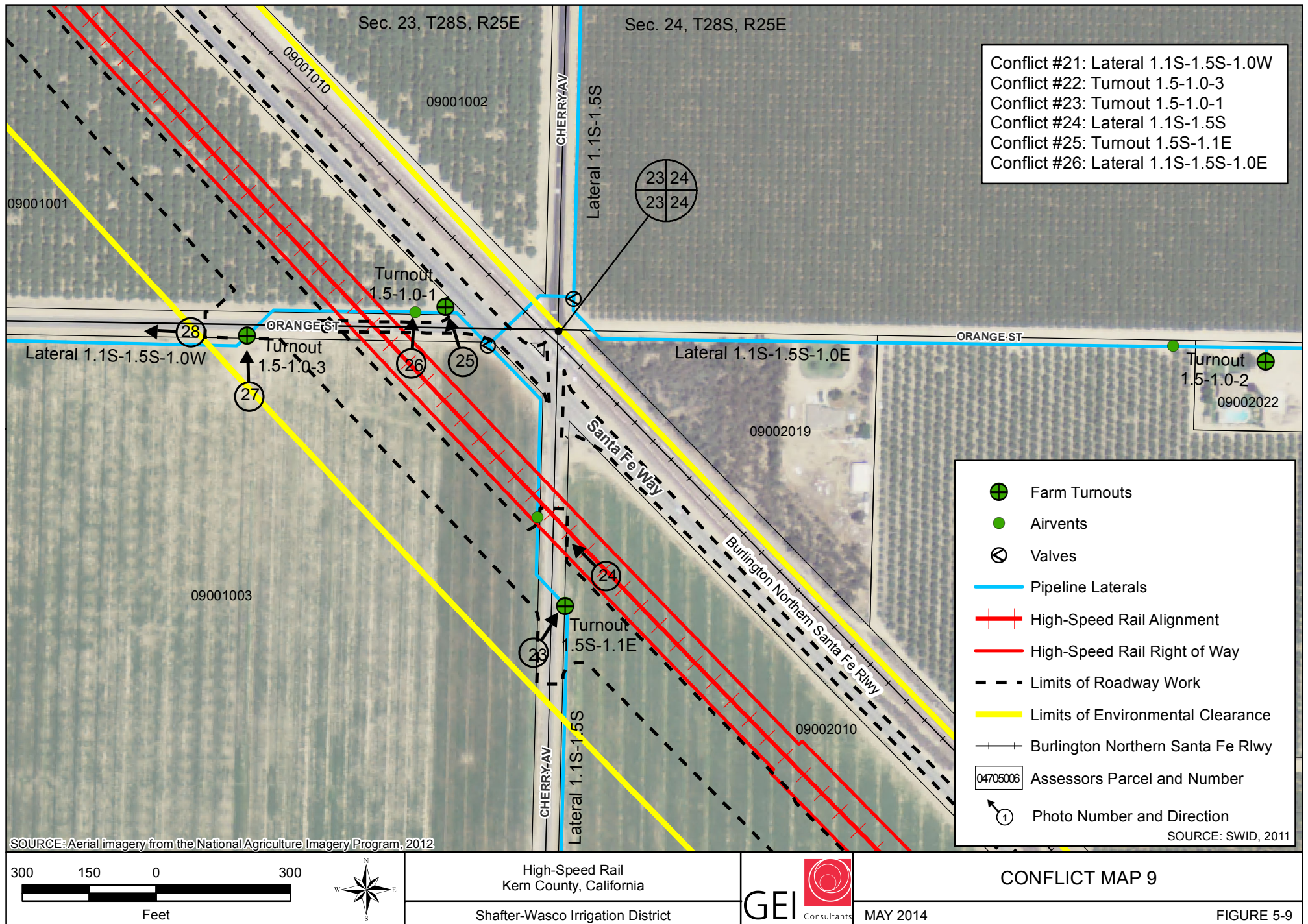


MAY 2014

CONFLICT MAP 7

FIGURE 5-7





Site Photographs





Photo #3: Looking East, north of Kimberlina Road.



Photo #4: View of the District's fenced maintenance building.



Photo #5: Lateral 1-4.85E pipeline corridor looking Southeast.



Photo #6: District's domestic well and associated facilities.



Photo #7: Lateral 1-3.7S pipeline corridor and crossing of Hwy 43.



Photo #8: Lateral 1-3.7S pipeline corridor and crossing of Hwy 43.



Photo #9: Turnout 4.4-1 looking Northeast.



Photo #10: Lateral 2-4.1N pipeline corridor looking South.

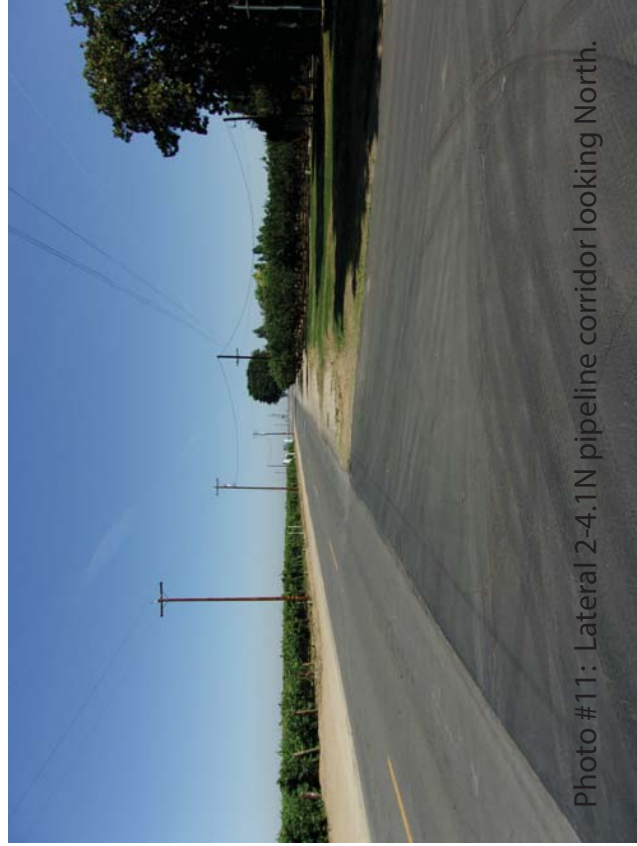


Photo #11: Lateral 2-4.1N pipeline corridor looking North.

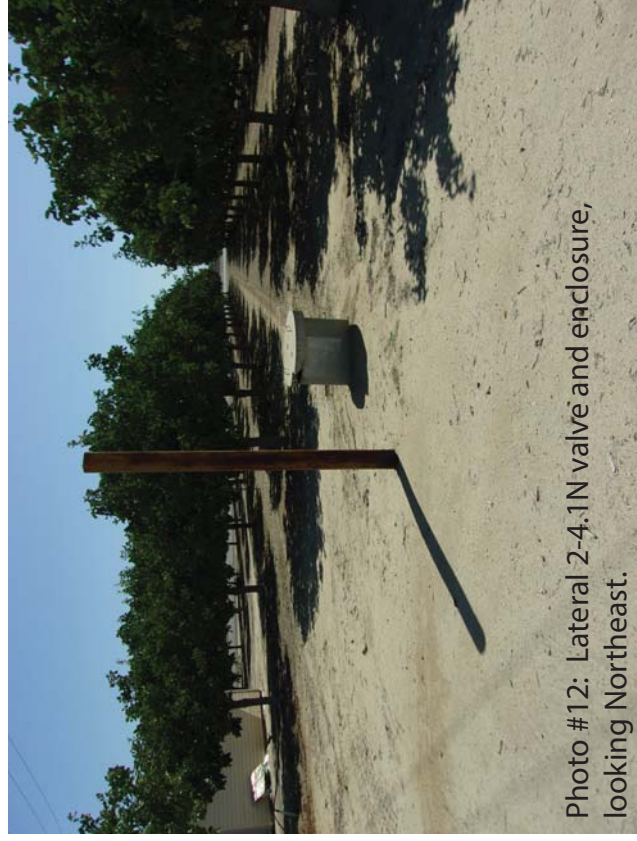


Photo #12: Lateral 2-4.1N valve and enclosure, looking Northeast.

<p>High-Speed Rail Kern County, California Shafter-Wasco Irrigation District</p>	<p>GEI Consultants Buckman-Ehrhardt Division</p>	<p>Site Photos - Conflicts #7, #8, #9, and #10</p>
	<p>May 2014</p>	<p>Figure 6-4</p>



Photo #13: Turnout 4.1-3 looking Northwest.



Photo #14: Turnout 4.1-3 looking Northwest.



Photo #15: Turnout 2-3.7S looking East.



Photo #16: Lateral 137.2 pipeline corridor and air vent looking West.



Photo #17: Turnout 2-3.4N looking North.



Photo #18: Turnout 2-3.3S looking North.



Photo #19: Lateral 2-1.1S pipeline crossing and valves looking Northeast.



Photo #20: Lateral 2-1.1S pipeline crossing and valves looking Northeast.



Photo #21: Turnout 1.1-3.1-4 looking Northwest.



Photo #22: Turnout 1.1-3.1-4 looking North.

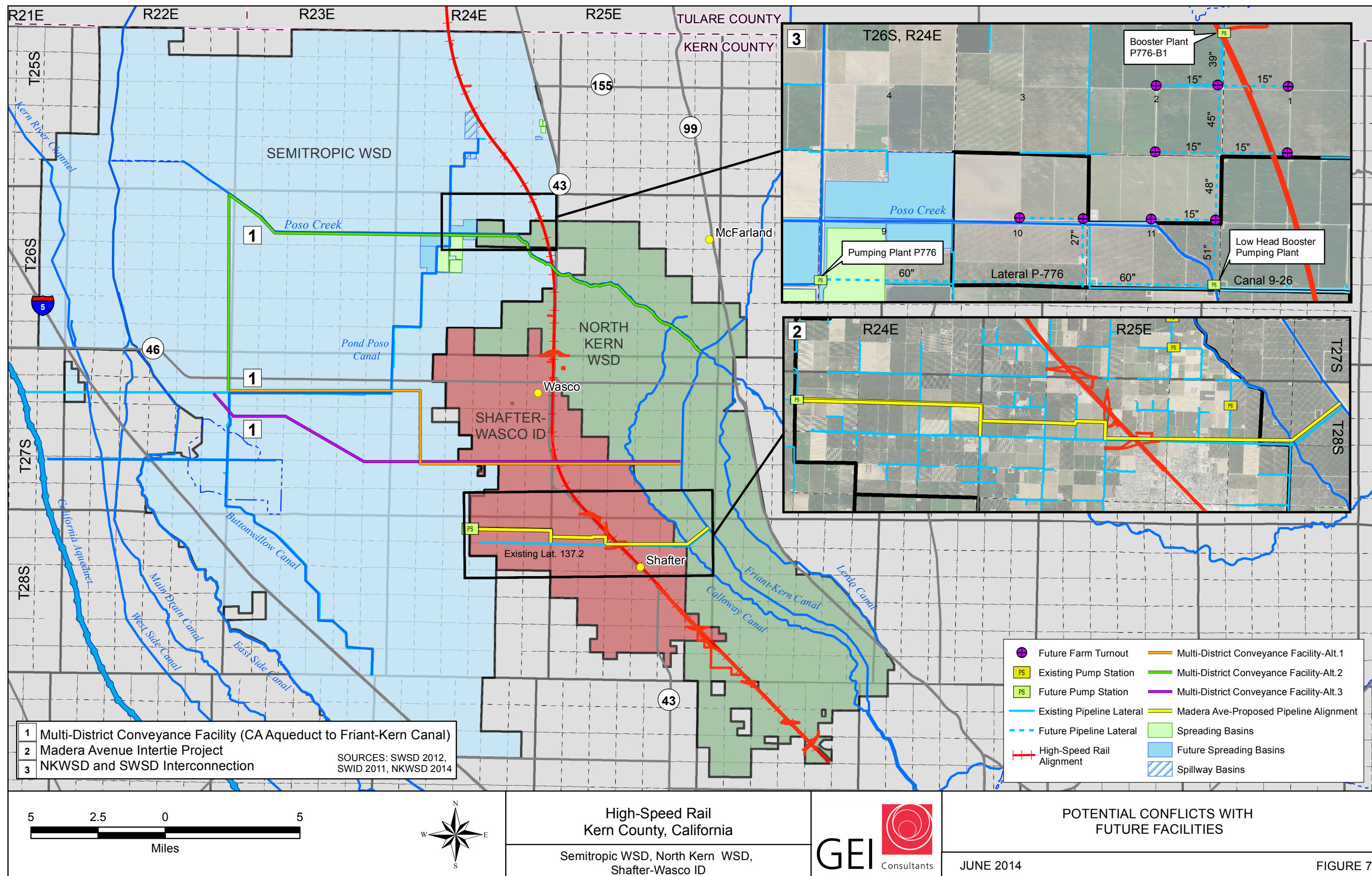


Photo #23: Turnout 1.5S-1.1E looking Northeast.

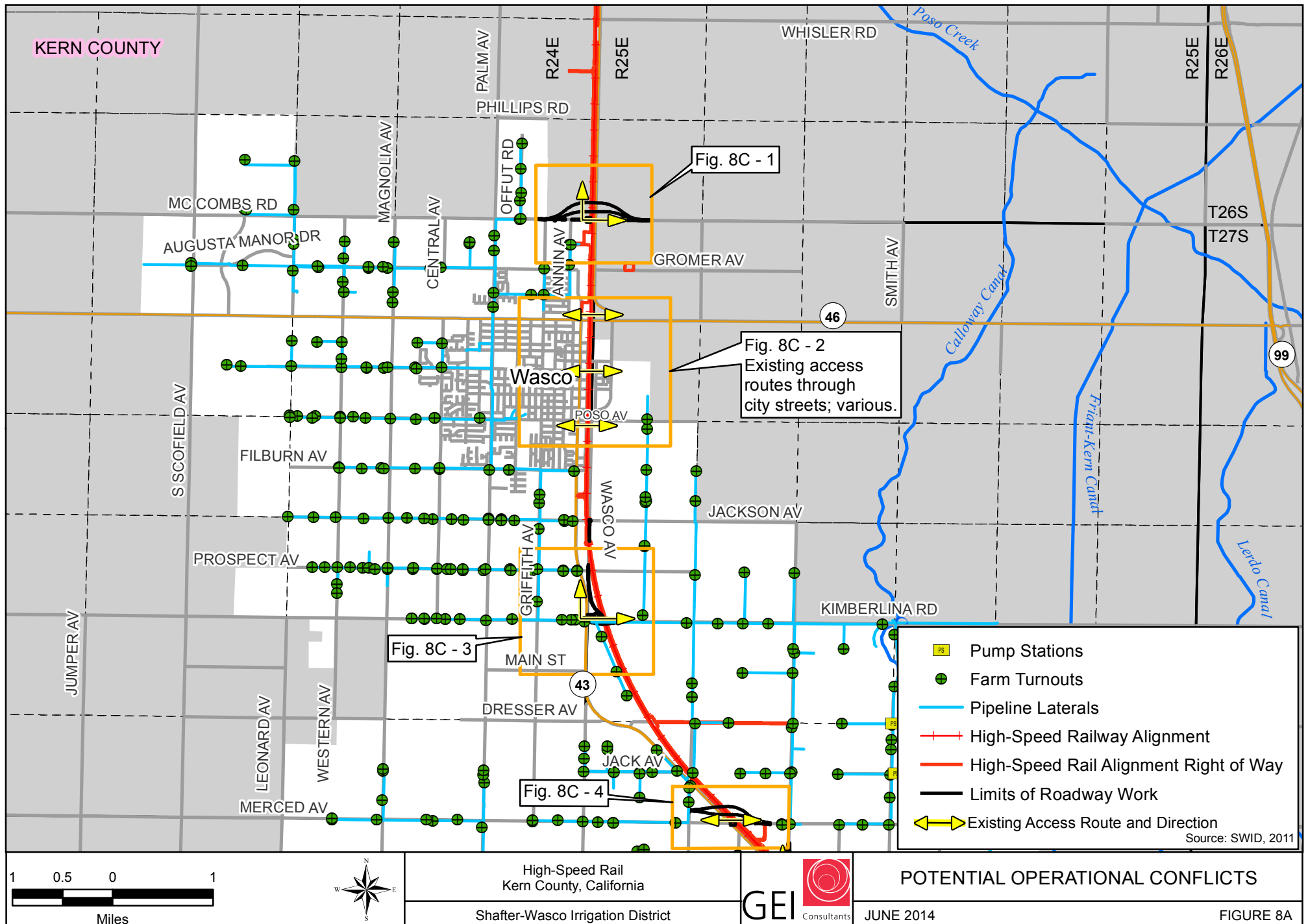


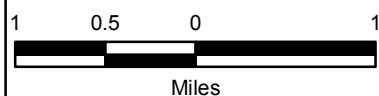
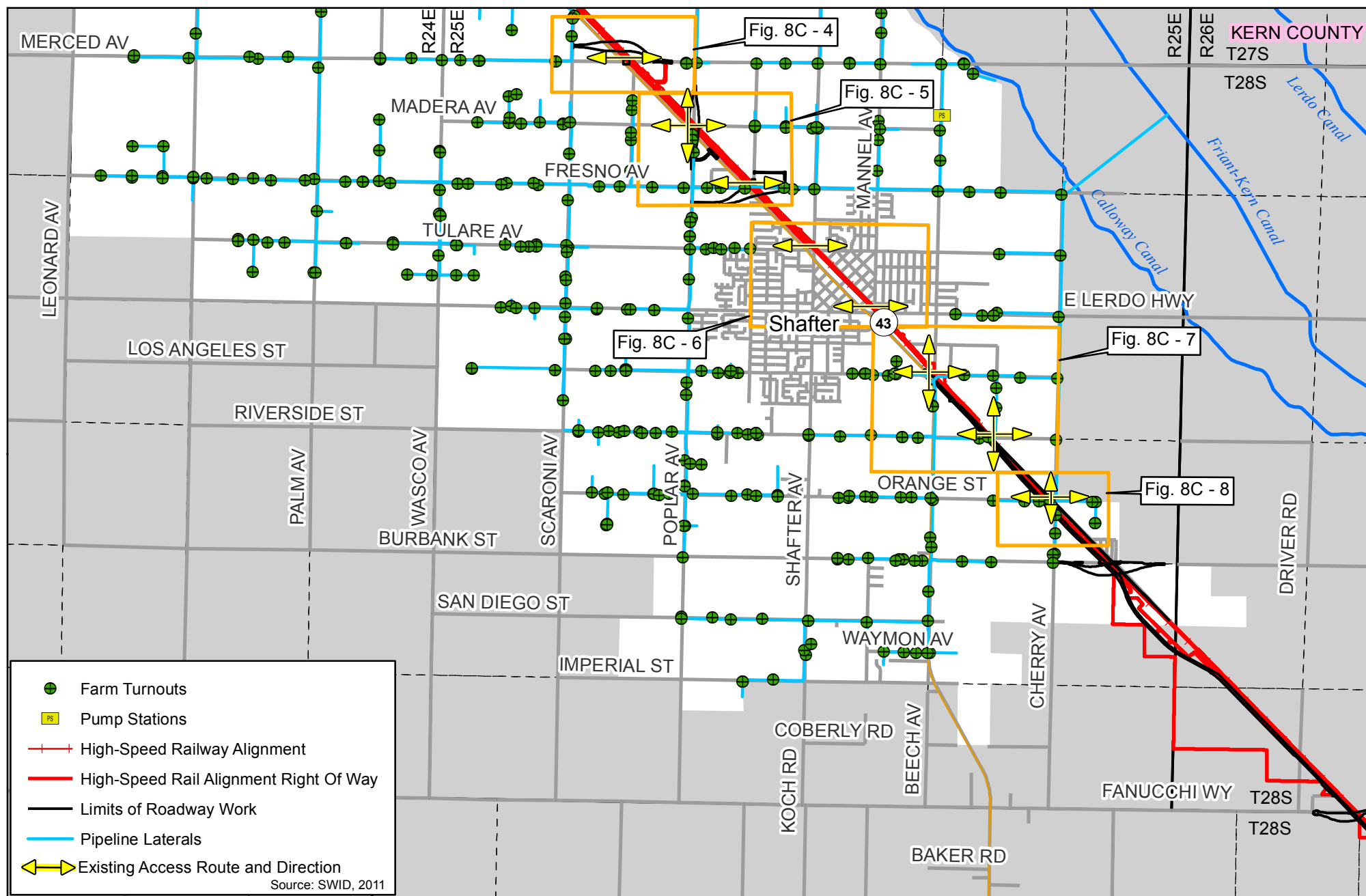
Photo #24: Lateral 1.1S-1.5S pipeline & airvent, looking Northwest.

Prospective Conflicts Map



Operational Conflicts Map





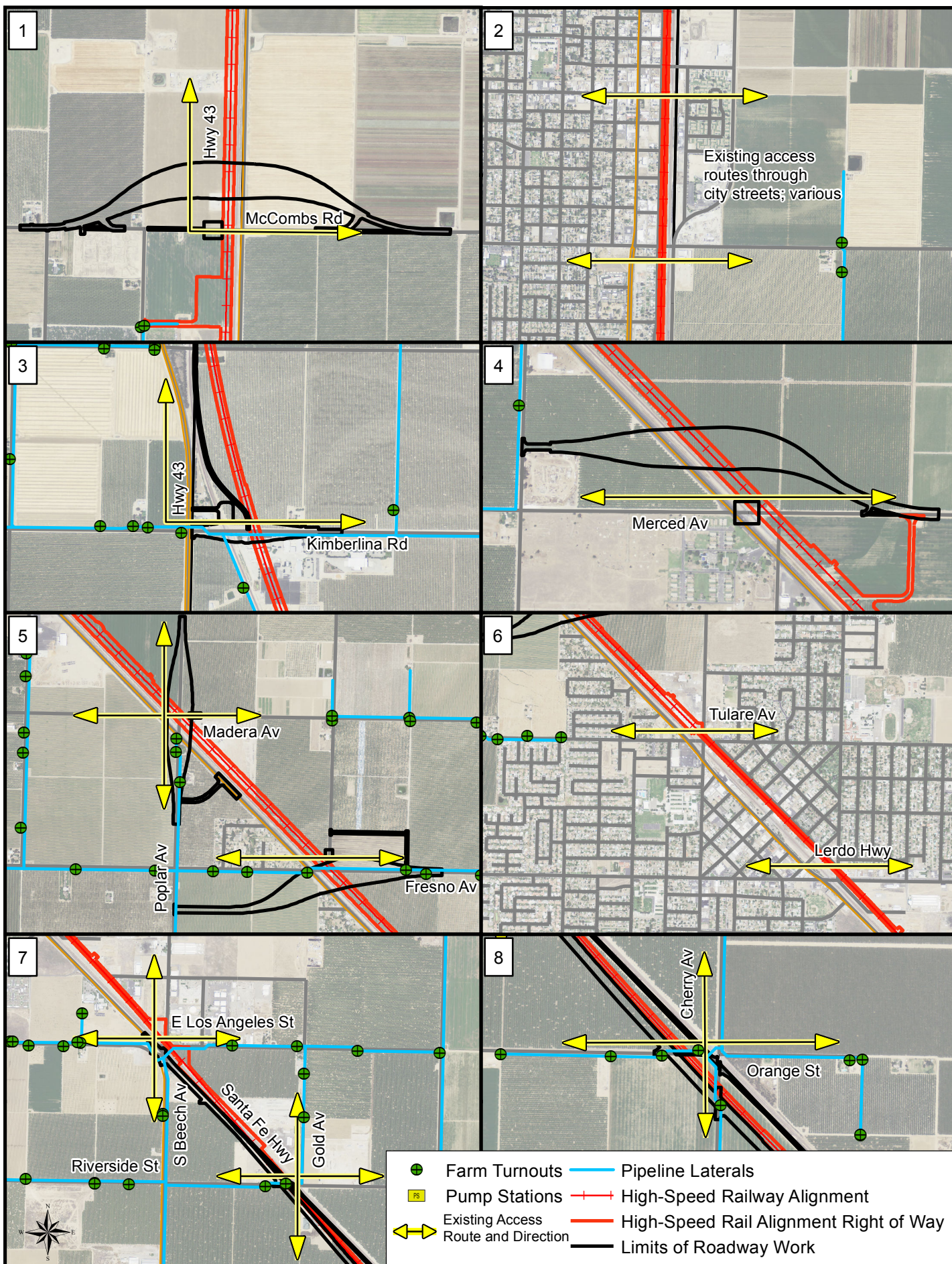
High-Speed Rail
Kern County, California
Shafter-Wasco Irrigation District



POTENTIAL OPERATIONAL CONFLICTS

JUNE 2014

FIGURE 8B



High-Speed Rail
Kern County, California

Shafter-Wasco Irrigation District



POTENTIAL OPERATIONAL CONFLICTS

JUNE 2014

FIGURE 8C

Summary of Conflicts

Shafter-Wasco Irrigation District
High Speed Rail Project
Potentially Impacted District Facilities

Item No.	Distribution System Name	Facility Name	Facility Impacted by HSR or Road Realignment	HSR Alignment, Exhibit Page No.	HSR Alignment Station	Nearest Major Cross Streets	Facility Type and Size (Year Installed)	Facility Location	Construction Contract Name	Construction Contract No.	As-Built Drawing No.	Easement Type	Easement Document No. (Year/Width)
1A	Lateral 134.4 Distribution System	Lateral 9.1E-1.3E	Road Realignment	"WS1" Line, #5	N/A	Annin Ave. and Mc Combs Road	12" RCP, HC100 (1955)	Sec. 1, T27S, R24E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19794, 214-220-6520, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	Book 2533, Page 177 Book 3005, Page 345 (1955, 20 ft.)
1B	Lateral 134.4 Distribution System	Turnout 9.1-18	Road Realignment	"WS1" Line, #5	N/A	Annin Ave. and Mc Combs Road	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 1, T27S, R24E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19794, 214-220-6520, 214-D-19739	Permanent Easement	Book 2533, Page 177 Book 3005, Page 345 (1955, 20 ft.)
2	N/A	District Office	Road Realignment	"WS1" Line, #11	N/A	Kimberlina Road and Wasco Ave.	SWID Headquarters Office (2013) and Shop Building	Sec. 19, T27S, R25E	N/A	N/A	C1.01, P1.00, E1.00, L1.02	Fee Parcel	N/A
3	N/A	Domestic Well	Road Realignment	"WS1" Line, #11	N/A	Kimberlina Road and Hwy. 43	Domestic Well and Appurtenances	Sec. 19, T27S, R25E	N/A	N/A	C1.01, P1.00, E1.00, L1.02	Fee Parcel	N/A
4	Lateral 134.4 Distribution System	Lateral 134.4	HSR and Road Realignment	"WS1" Line, #11	5717+00	Kimberlina Road and Hwy. 43	72" RCP, HC75 (1955) 60" CCP R/R Undercrossing (1955) 66" RCP, HC75 (1955)	Sec. 30, T27S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19732, 214-220-6470, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement Permanent Easement	Book 2440, Page 444 (1955, 55 ft.) Book 2569, Page 152 (1955, 65 ft.)
5	Lateral 134.4 Distribution System	Lateral 1-4.8SE	Road Realignment	"WS1" Line, #11	N/A	Kimberlina Road and Hwy. 43	15" RCP, HC75 (1955)	Sec. 30, T27S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19732, 214-220-6470, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	Book 2538, Page 90 (1955, 25 ft.)
6	Lateral 134.4 Distribution System	Lateral 1-3.7S	HSR	"WS1" Line, #15	5811+50	Hwy. 43 and Scaroni Ave.	27" RCP, HC75 (1955)	Sec. 31/32, T27S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19732, 214-220-6492, 214-D-19735, 214-D-19736, 214-D-19746	N/A	N/A
7	Lateral 134.4 Distribution System	Lateral 2-4.1N	Road Realignment	"WS1" Line, #18	N/A	Hwy. 43 and Poplar Ave.	12", 15", 18" RCP, HC75 (1955)	Sec. 4/5, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19794, 214-220-6577, 214-D-19795, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	Book 2600, Page 555 (1956, 30 ft.)
8	Lateral 134.4 Distribution System	Turnout 4.1-5	Road Realignment	"WS1" Line, #18	N/A	Hwy. 43 and Poplar Ave.	Farm turnout (10-inch) with flowmeter and valves (1955)	Sec. 5, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19794, 214-220-6577, 214-D-19795, 214-D-19739	Permanent Easement	Book 2600, Page 555 (1956, 30 ft.)
9	Lateral 134.4 Distribution System	Turnout 4.1-3	Road Realignment	"WS1" Line, #18	N/A	Hwy. 43 and Poplar Ave.	Farm turnout (10-inch) with flowmeter and valves (1955)	Sec. 5, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19794, 214-220-6577, 214-D-19795, 214-D-19739	Permanent Easement	Book 2600, Page 555 (1956, 30 ft.)
10	Lateral 134.4 Distribution System	Turnout 4.1-1	Road Realignment	"WS1" Line, #18	N/A	Hwy. 43 and Poplar Ave.	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 4, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19794, 214-220-6577, 214-D-19795, 214-D-19739	N/A	N/A
11	Lateral 137.2 Distribution System	Lateral 137.2	HSR and Road Realignment	"WS1" Line, #19	5920+00	Hwy. 43 and Fresno Ave.	60" RCP, HC75 (1955) 60" CCP R/R Undercrossing	Sec. 4, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6546, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	Book 2596, Page 331 (1956, 50 ft.) Book 2658, Page 397 (1955, 50 ft.) Book 2576, Page 77 (1956, 55 ft.)
12	Lateral 137.2 Distribution System	Turnout 2-3.3S	Road Realignment	"WS1" Line, #19	N/A	Hwy. 43 and Fresno Ave.	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 9, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6546, 214-D-19739	Permanent Easement	Book 2596, Page 341 (1956, 30 ft.)
13	Lateral 137.2 Distribution System	Turnout 2-3.4N	Road Realignment	"WS1" Line, #19	N/A	Hwy. 43 and Fresno Ave.	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 4, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6546, 214-D-19739	Permanent Easement	Book 2658, Page 397 (1955, 50 ft.)
14	Lateral 137.2 Distribution System	Turnout 2-3.7S	Road Realignment	"WS1" Line, #19	N/A	Hwy. 43 and Fresno Ave.	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 9, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6546, 214-D-19739	Permanent Easement	Book 2637, Page 94 (1956, 35 ft.)
15	Lateral 134.4 Distribution System	Lateral 2-4.1S	Road Realignment	"WS1" Line, #20	N/A	Fresno Ave. and Poplar Ave.	39" RCP, HC75 (1955)	Sec. 9, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19794, 214-220-6580, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	Book 2596, Page 386 (1956)
16	Lateral 137.2 Distribution System	Lateral 1.1S-2.6W	Road Realignment	"WS1" Line, #24	N/A	E. Los Angeles Ave. and Santa Fe Way	21" RCP, HC75 (1955)	Sec. 15, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6554, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	Book 2681, Page 92 (1956, 30 ft.)
17	Lateral 137.2 Distribution System	Lateral 2-1.1S	HSR and Road Realignment	"WS1" Line, #24	6033+00	E. Los Angeles Ave. and Santa Fe Way	42" RCP, HC75 (1955) 42" CCP R/R Undercrossing (1955)	Sec. 14, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6554, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	N/A

Shafter-Wasco Irrigation District
High Speed Rail Project
Potentially Impacted District Facilities

Item No.	Distribution System Name	Facility Name	Facility Impacted by HSR or Road Realignment	HSR Alignment, Exhibit Page No.	HSR Alignment Station	Nearest Major Cross Streets	Facility Type and Size (Year Installed)	Facility Location	Construction Contract Name	Construction Contract No.	As-Built Drawing No.	Easement Type	Easement Document No. (Year/Width)
18	Lateral 137.2 Distribution System	Lateral 2-1.1S	HSR	"WS1" Line, #24	N/A	E. Los Angeles Ave. and Santa Fe Way	39" RCP, HC75 (1955)	Sec. 14, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6554, 214-D-19735, 214-D-19736, 214-D-19746	N/A	Book 2600, Page 550 (1956, 100 ft.)
19	Lateral 137.2 Distribution System	Lateral 1.1S-3.1E	HSR and Road Realignment	"WS1" Line, #25	6067+00	Riverside Street and Santa Fe Way	12" RCP, HC75 (1955)	Sec. 14, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6568, 214-D-19735, 214-D-19736, 214-D-19746	Permanent Easement	Book 3596, Page 887 (1963)
20	Lateral 137.2 Distribution System	Turnout 1.1-3.1-4	HSR	"WS1" Line, #25	6067+00	Riverside Street and Santa Fe Way	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 14, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6568, 214-D-19739	Permanent Easement	Book 3596, Page 887 (1963)
21	Lateral 137.2 Distribution System	Lateral 1.1S-1.5S-1.0W	HSR and Road Realignment	"WS1" Line, #26	6103+00	Orange Street and Cherry Ave.	12" RCP, HC75 (1955)	Sec. 23, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6563, 214-D-19735, 214-D-19736, 214-D-19746	Permanenet Easement	Book 2669, Page 112 (1956, 20 ft.)
22	Lateral 137.2 Distribution System	Turnout 1.5-1.0-3	Road Realignment	"WS1" Line, #26	N/A	Orange Street and Cherry Ave.	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 23, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6563, 214-D-19739	Permanent Easement	Book 2653, Page 319 (1956, 15 ft.)
23	Lateral 137.2 Distribution System	Turnout 1.5-1.0-1	Road Realignment	"WS1" Line, #26	N/A	Orange Street and Cherry Ave.	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 23, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6563, 214-D-19739	Permanenet Easement	Book 2669, Page 112 (1956, 20 ft.)
24	Lateral 137.2 Distribution System	Lateral 1.1S-1.5S	HSR and Road Realignment	"WS1" Line, #26	6110+00	Orange Street and Cherry Ave.	18" RCP, HC75 (1955)	Sec. 23, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6561, 214-D-19735, 214-D-19736, 214-D-19746	Permanenet Easement	Book 2627, Page 329 (1956, 30 ft.)
25	Lateral 137.2 Distribution System	Turnout 1.5S-1.1E	Road Realignment	"WS1" Line, #26	N/A	Orange Street and Cherry Ave.	Farm turnout (8-inch) with flowmeter and valves (1955)	Sec. 24, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6561, 214-D-19739	Permanenet Easement	Book 2627, Page 329 (1956, 20 ft.)
26	Lateral 137.2 Distribution System	Lateral 1.1S-1.5S-1.0E	Road Realignment	"WS1" Line, #26	N/A	Orange Street and Cherry Ave.	24" CCP, R/R Undercrossing (1955)	Sec. 23, T28S, R25E	Completion of Lateral 134.4 and 137.2	DC-4732	214-D-19795, 214-220-6563, 214-D-19735, 214-D-19736, 214-D-19746	N/A	N/A

Legend:

PVC: Polyvinylchloride RCP: Reinforced Concrete Pipe CCP: Concrete Cylinder Pipe HC: Head Class R/R: Railroad